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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/696,634	10/29/2003	Meikei leong	YOR920030394US1 (16963)	5489
75	90 10/12/2004		EXAM	INER
Steven Fischm	nan		ERDEM	, FAZLI
Scully, Scott, M	Surphy & Presser			
400 Garden City Plaza Garden City, NY 11530			ART UNIT	PAPER NUMBER
			2826	
			DATE MAILED: 10/12/2004	

Please find below and/or attached an Office communication concerning this application or proceeding.

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, 3		Application No.	Applicant(s)			
		10/696,634	IEONG ET AL.			
	Office Action Summary	Examiner	Art Unit			
<u> </u>		Fazli Erdem	2826			
A SH THE - Exterafter - If the - If NO - Failu	The MAILING DATE of this communication as or Reply ORTENED STATUTORY PERIOD FOR REF MAILING DATE OF THIS COMMUNICATION as ions of time may be available under the provisions of 37 CFR SIX (6) MONTHS from the mailing date of this communication. period for reply specified above is less than thirty (30) days, a reperiod for reply is specified above, the maximum statutory perior to reply within the set or extended period for reply will, by state the period for reply with the set or extended period for reply will, by state the period for reply will be period for reply will, by state the period for reply will be p	PLY IS SET TO EXPIRE 3 MONTH I. 1.136(a). In no event, however, may a reply be tieply within the statutory minimum of thirty (30) daid will apply and will expire SIX (6) MONTHS from the, cause the application to become ABANDON!	mely filed ys will be considered timely. In the mailing date of this communication. ED (35 U.S.C. § 133).			
1)⊠	Responsive to communication(s) filed on $\underline{\it 09}$	September 2004.				
2a) <u></u> ☐	This action is FINAL . 2b)⊠ Th	nis action is non-final.				
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Dispositi	on of Claims					
5)⊠ 6)⊠ 7)⊠	 4) Claim(s) 1-35 is/are pending in the application. 4a) Of the above claim(s) 10-23 is/are withdrawn from consideration. 5) Claim(s) 24-35 is/are allowed. 6) Claim(s) 1 and 4-7 is/are rejected. 7) Claim(s) 2,3,8 and 9 is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement. 					
Applicati	on Papers					
9) The specification is objected to by the Examiner.						
10)	10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.					
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11)	The oath or declaration is objected to by the		• •			
Priority u	ınder 35 U.S.C. § 119	·				
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
Attachment	` '	_				
	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948)	4) ☐ Interview Summary Paper No(s)/Mail D				
3) 🔲 Inforn	nation Disclosure Statement(s) (PTO-1449 or PTO/SB/0 No(s)/Mail Date		Patent Application (PTO-152)			

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DETAILED ACTION

Allowable Subject Matter

- 1. Claims 24-35 allowed.
- 2. Claims 2, 3, 8 and 9objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claims 1 and 4-7 rejected under 35 U.S.C. 103(a) as being unpatentable over Isomura (JP 2001068708) in view of Hayafuji et al. (5,677,922)

Regarding Claims 1 and 4-7. Isomura discloses a semiconductor element, solar battery element and manufacture of the semiconductor element where in Fig. 4 a polysilicon layer 4 is formed having a different crystal orientation than layer 5 which is directly on top of it. Isomura fails to disclose a conductive layer between the two layers having two different crystal orientations. However, Hayafuji et al. disclose a semiconductor laser with crystalline window layer where in Fig. 1(a), layers 26 and 8 have different crystal orientations and there are conducting layers between them.

It would have been obvious to one of having ordinary skill in the art the time the invention was made to include the required conductive layer between the first and the second

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layers having different crystal orientations, in order to have a semiconductor device with more

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functionality.

Conclusion

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Fazli Erdem whose telephone number is (571) 272-1914. The

examiner can normally be reached on M - F 8:00 - 5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Nathan Flynn can be reached on (571) 272-1915. The fax phone number for the

organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

FE

September 17, 2004

NATHAN J. FLYNN
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